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**From:** Cobb, Coralie H CIV NAVFAC SW, SWEV  
**To:** (b) (6)  
**Sent:** 3/24/2017 5:17:37 PM  
**Subject:** monitoring for Mariana eight spot butterfly

Eric,

The Pacific Islands office is asking us to provide a monitoring plan for the Mariana eight-spot butterfly (*Hypolimnas octocula*) which includes a description of how the presence of *Hypolimnas octocula* could be verified to demonstrate conservation measures are benefiting the listed Mariana eight-spot butterfly. The non-listed Malaysian butterfly's (*H. anomala*) larvae are similar in appearance and use the same host plant species as *Hypolimnas octocula*. If the host plants are used as a surrogate for presence, how will DoN determine that mitigation is benefiting the listed species, rather than the non-listed species?

Do you have any examples of monitoring plans we can review? I looked at the surrogate website and it mentions the Fender's blue butterfly being a pilot species for a surrogate project but I didn't see a monitoring protocol.

Thank you (in advance).

Coralie

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"It's not about what it is, it's about what it can become."